

1/22

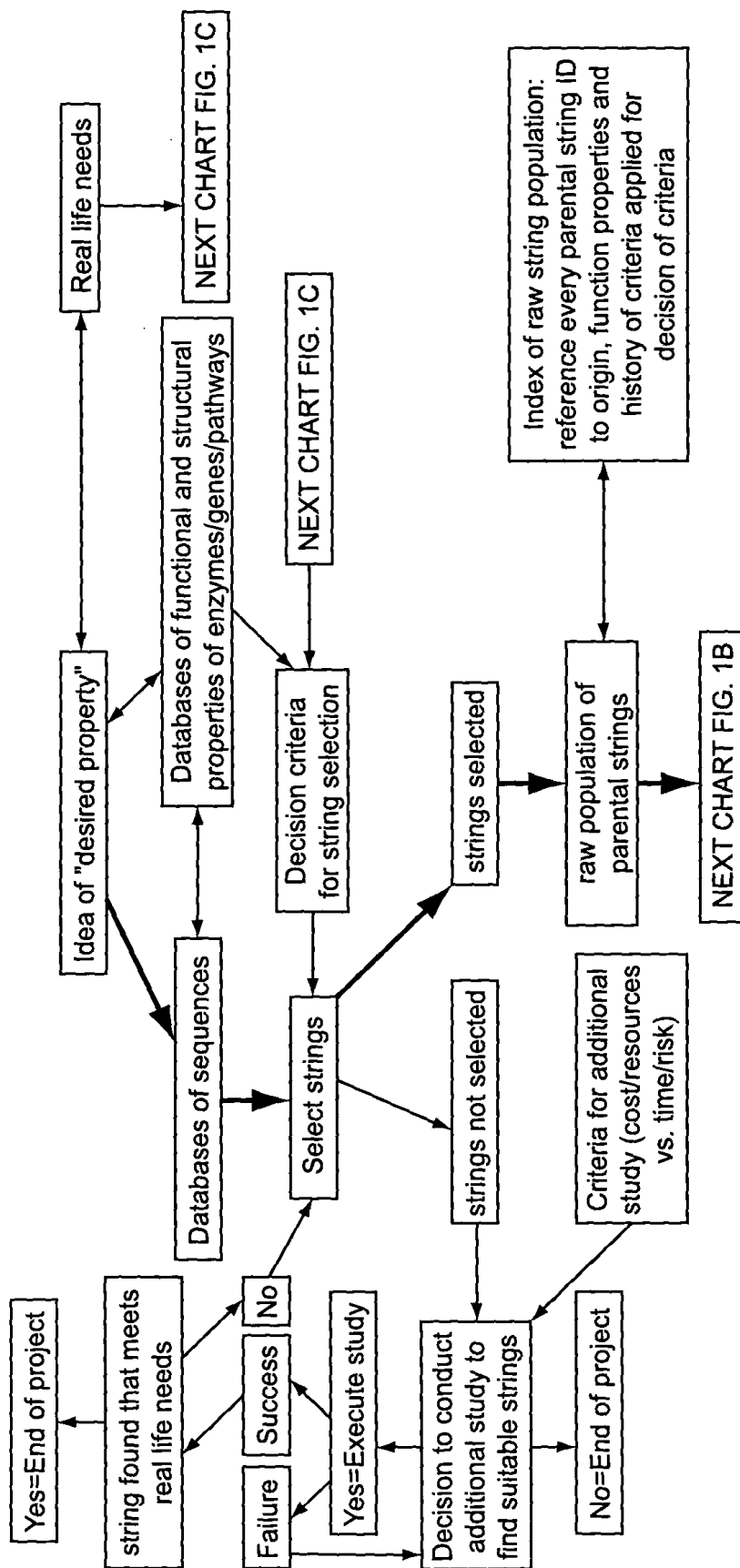


Fig. 1A

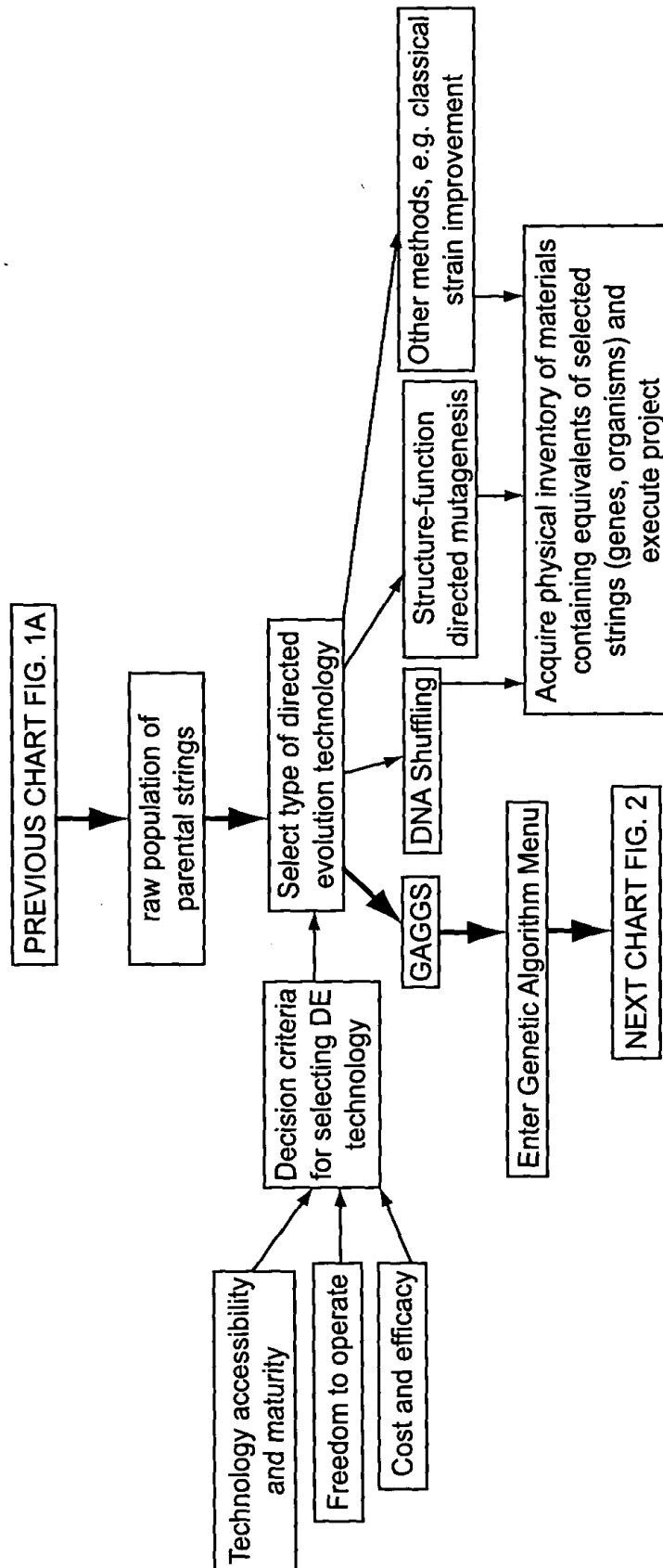
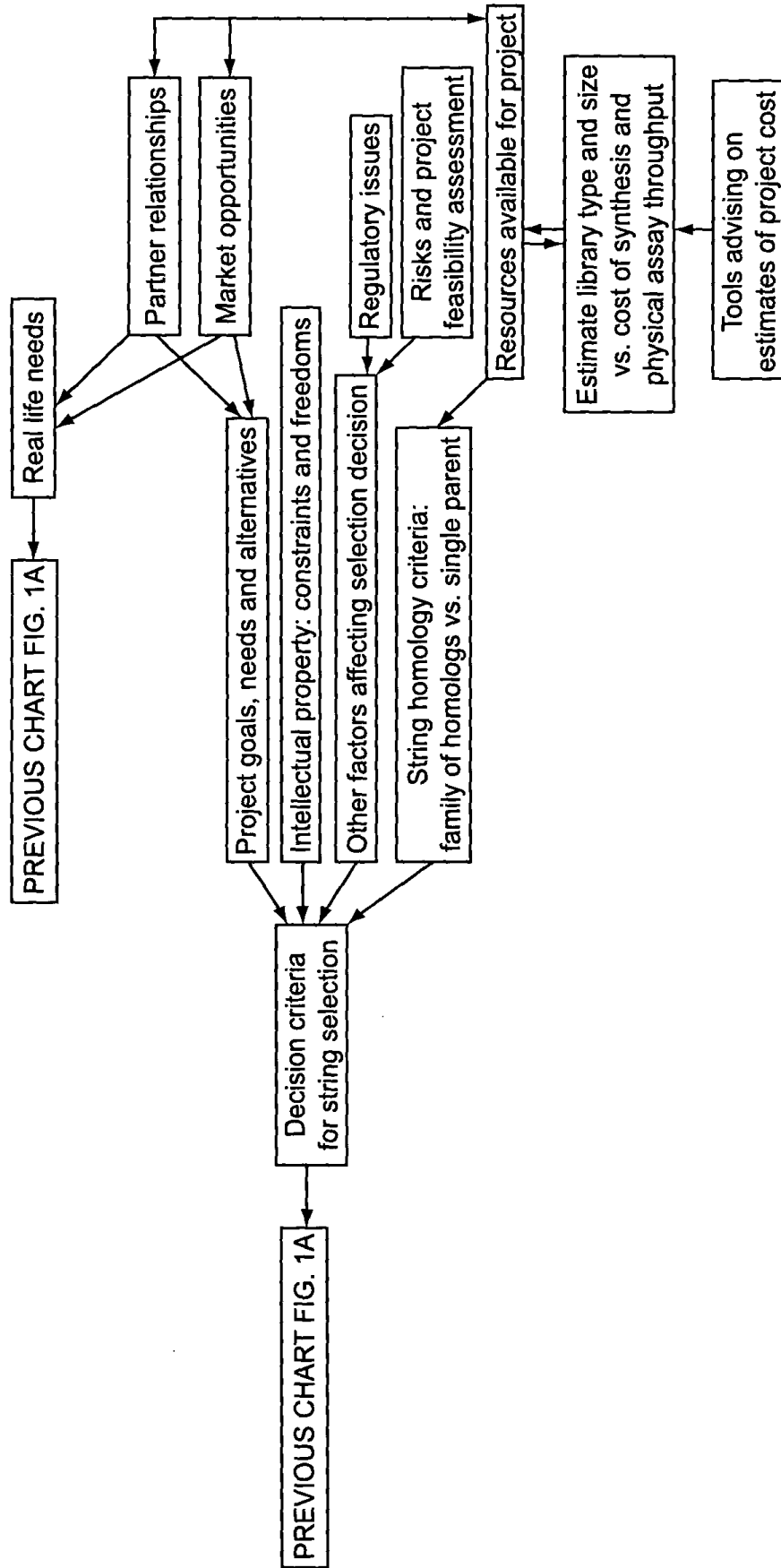


Fig. 1B

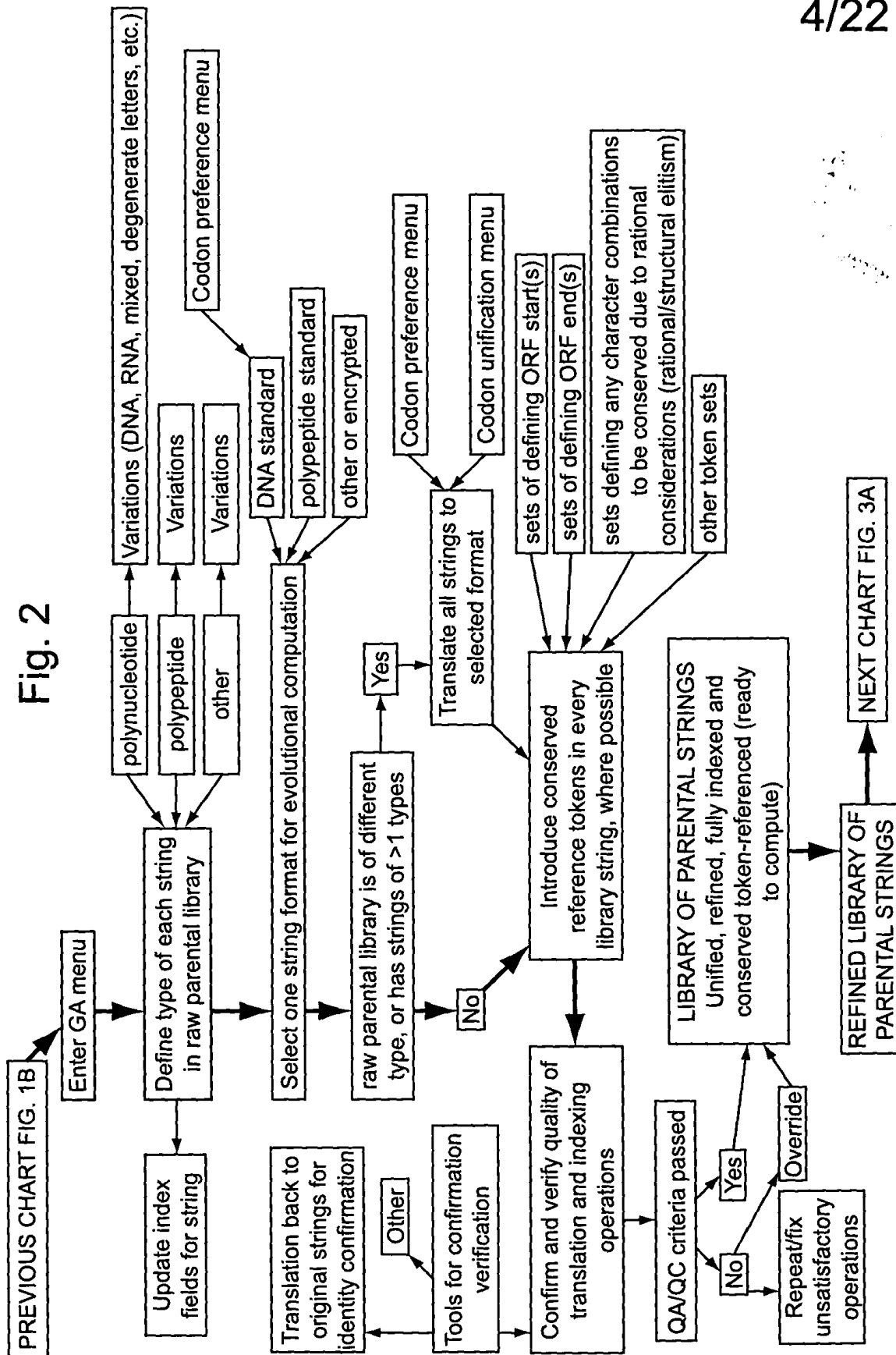


3/22

Fig. 1C

4/22

Fig. 2



5/22

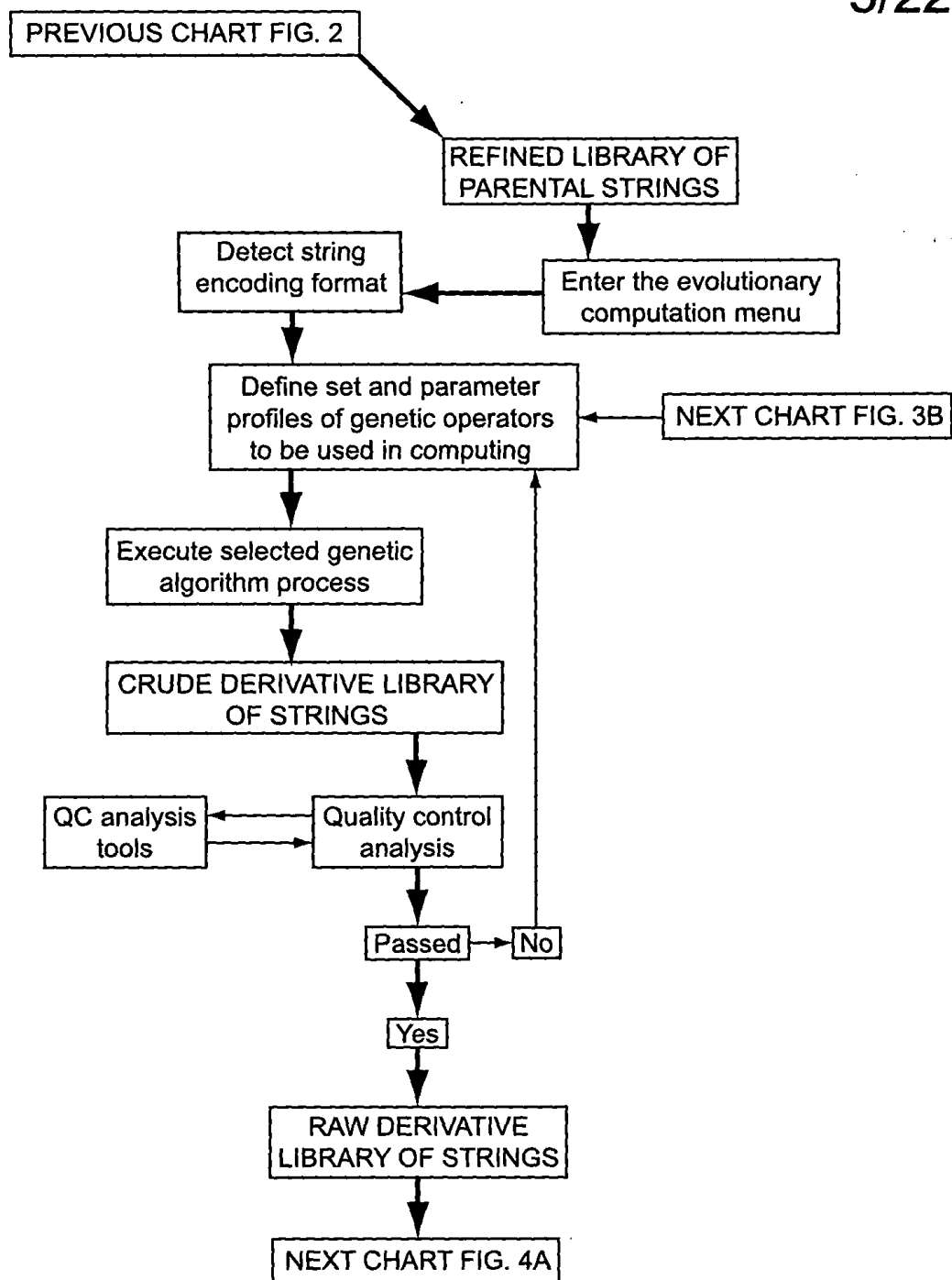
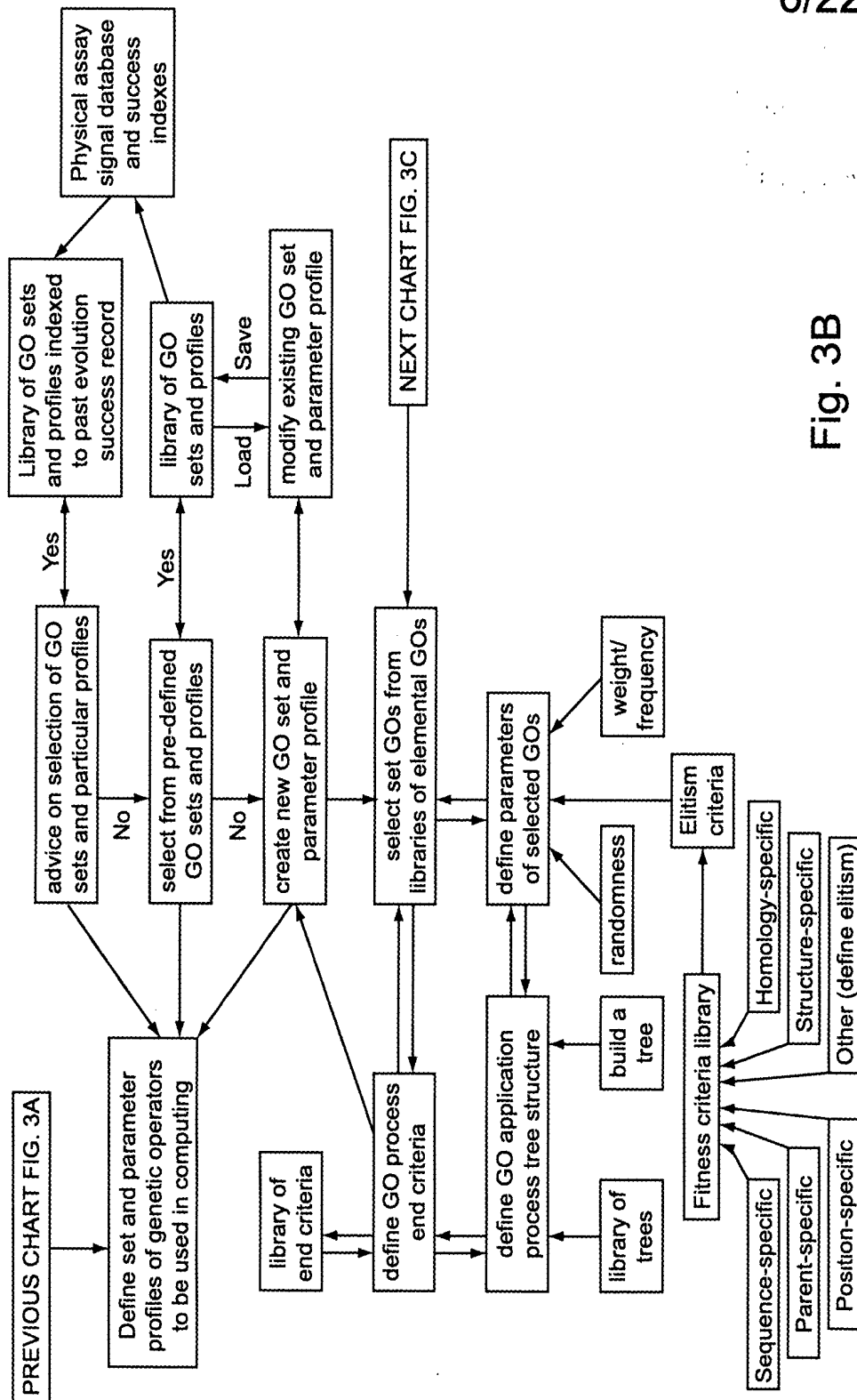


Fig. 3A

6/22



7/22

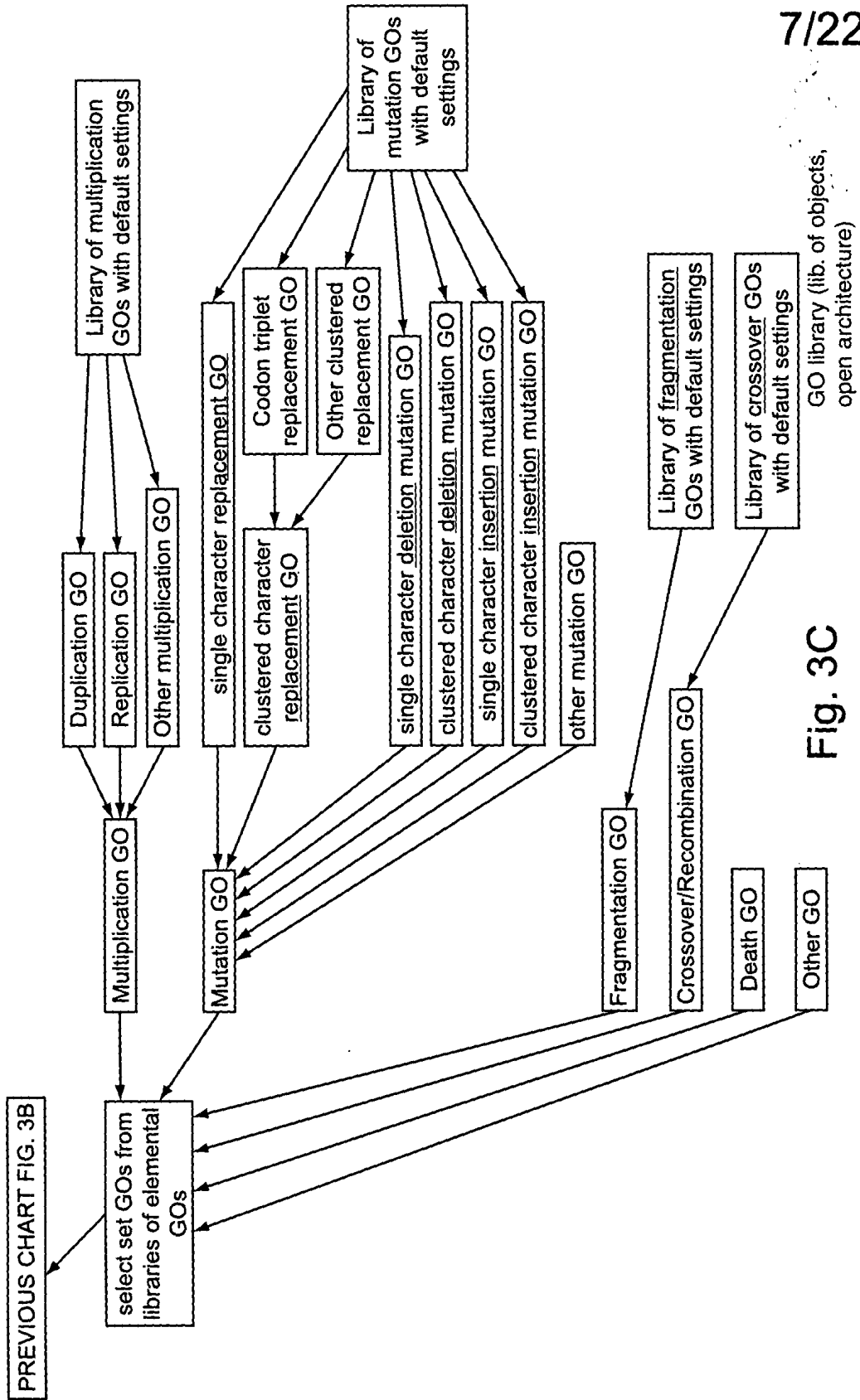


Fig. 3C

GO library (lib. of objects, open architecture)

8/22

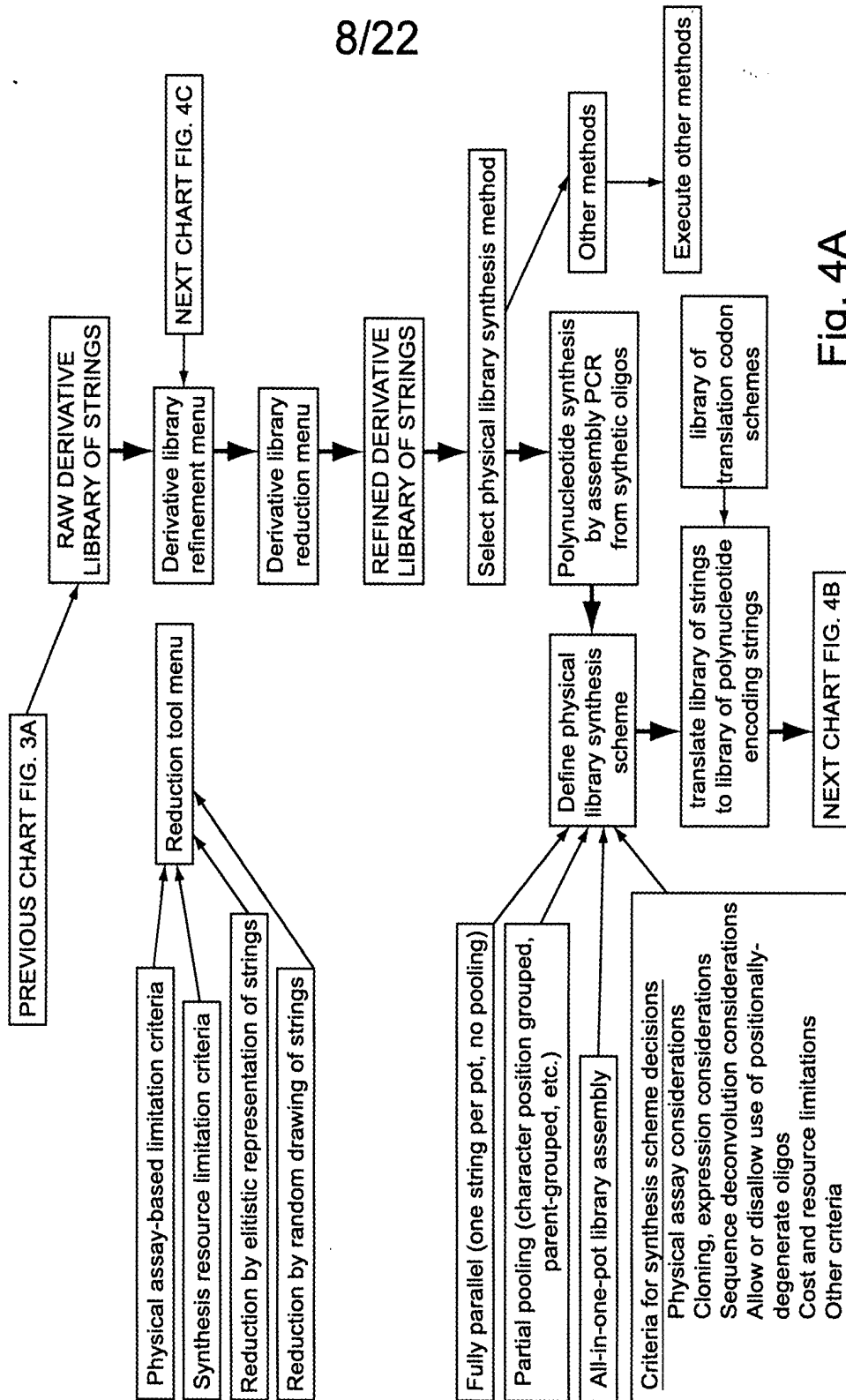


Fig. 4A



9/22

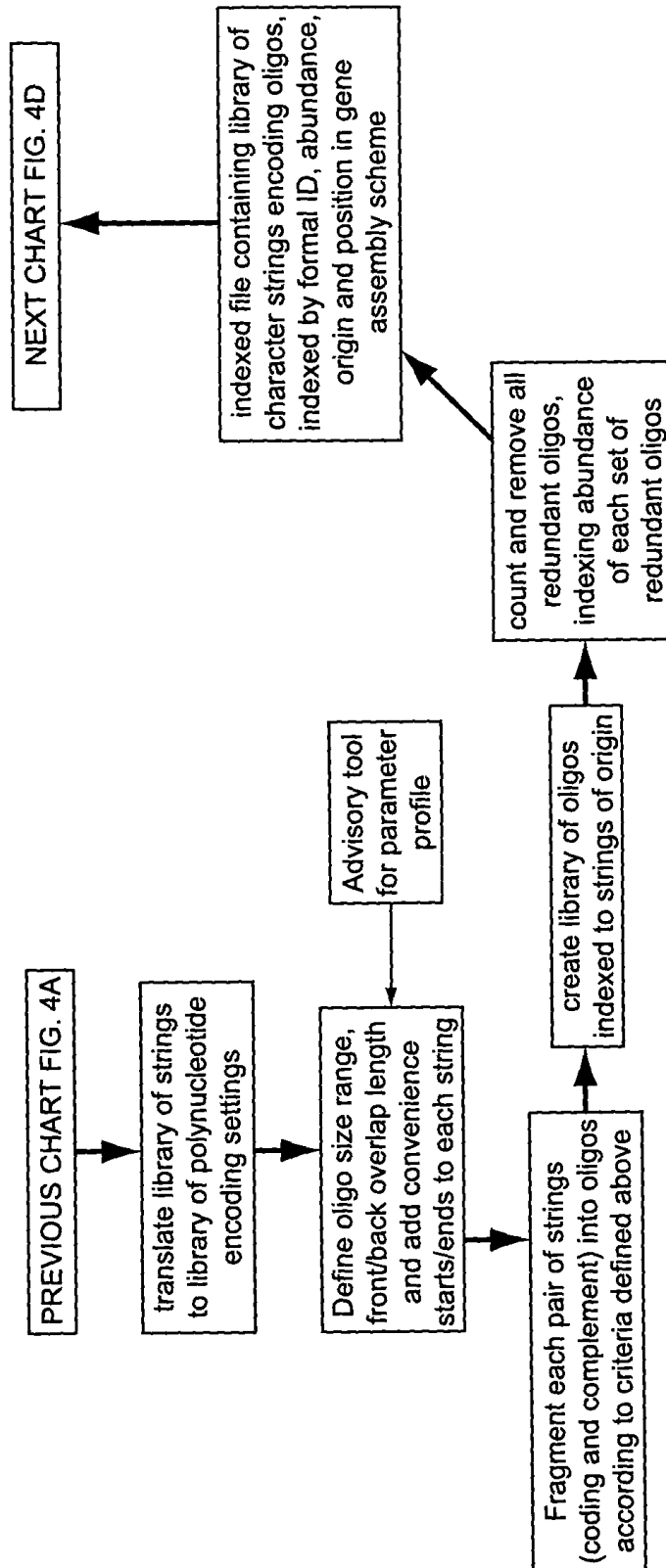


Fig. 4B

10/22

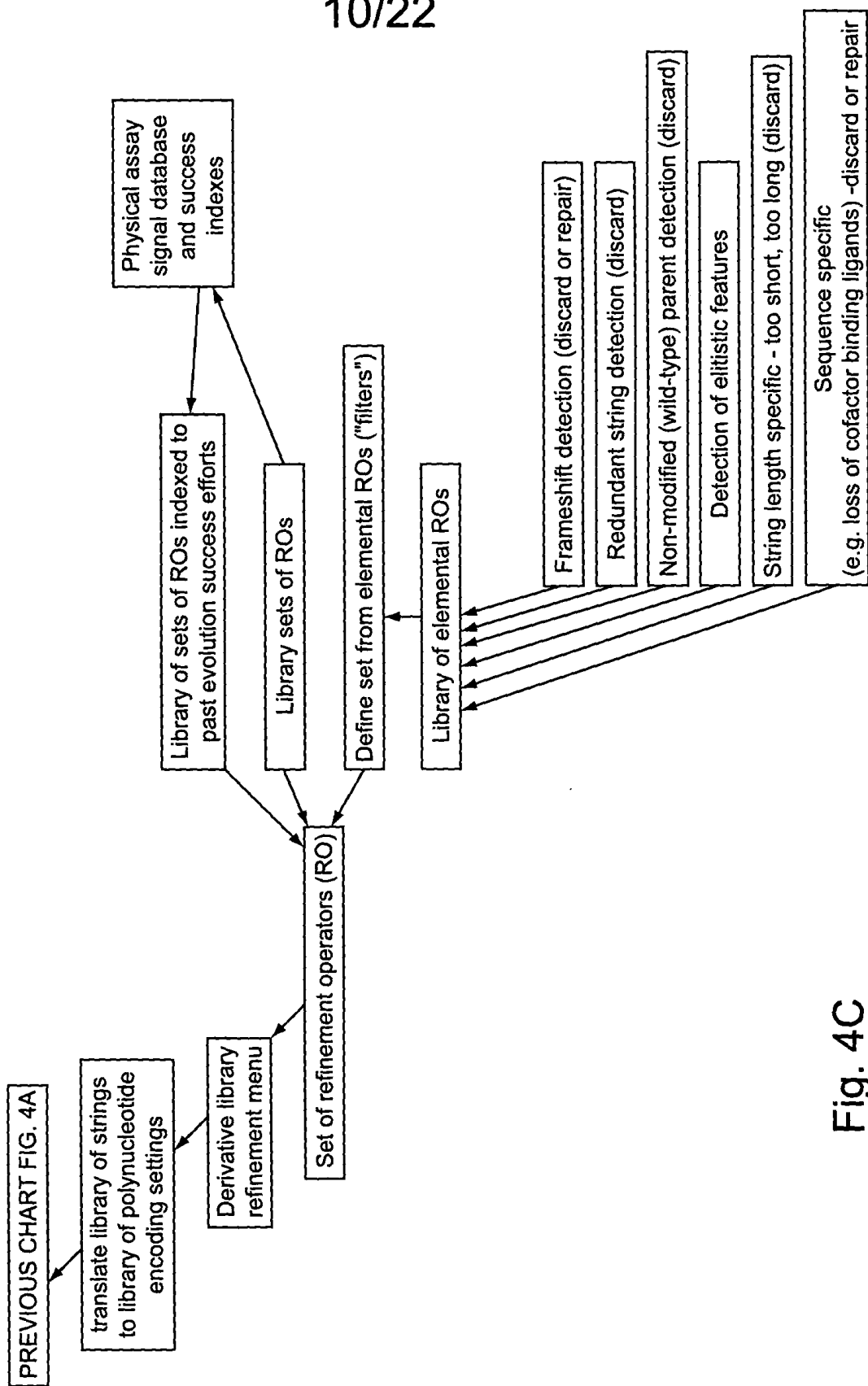


Fig. 4C

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

11/22

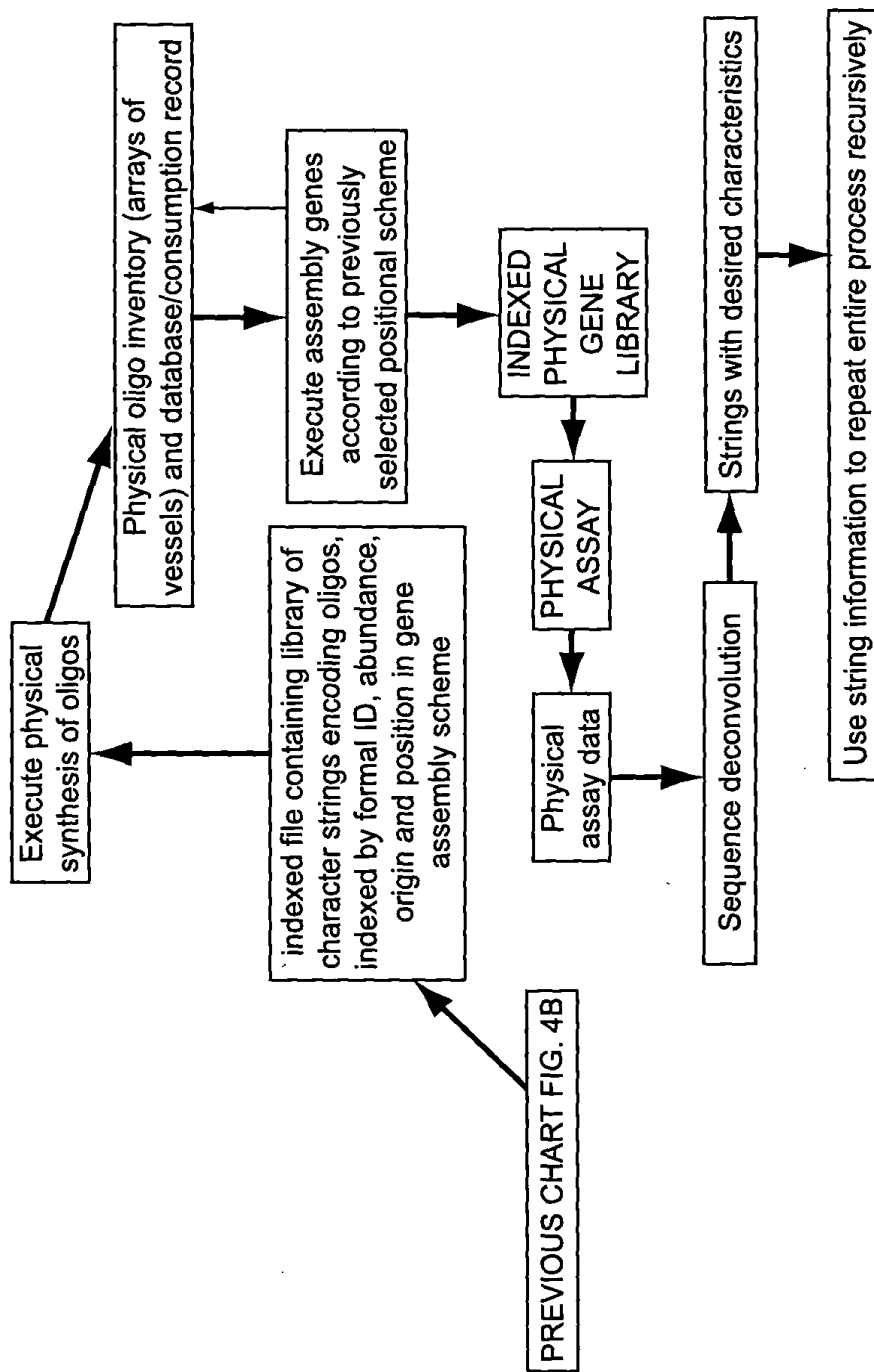


Fig. 4D

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

12/22

Percent Similarity

	1	2	3	4	5	6	7		
1		62.1	81.4	57.6	81.8	56.1	59.1	1	A27211 synthetic 309.PM
2	50.5		61.0	54.9	59.5	58.2	60.8	2	BACAPRQ subtilisin.PM
3	21.0	52.0		54.6	78.4	50.6	53.2	3	BACAPRS subtilisin.PM
4	54.4	63.3	62.3		52.0	64.6	67.9	4	BACSBTL subtilisin.PM
5	20.5	54.9	25.1	65.6		53.9	56.5	5	BACYAB subtilisin alk.PM
6	58.6	56.6	72.2	44.2	63.4		94.9	6	BLSC11594 subtilisin.PM
7	52.5	51.4	66.0	38.5	57.8	4.9		7	I82494 keratinase.PM
	1	2	3	4	5	6	7		

Fig. 5A

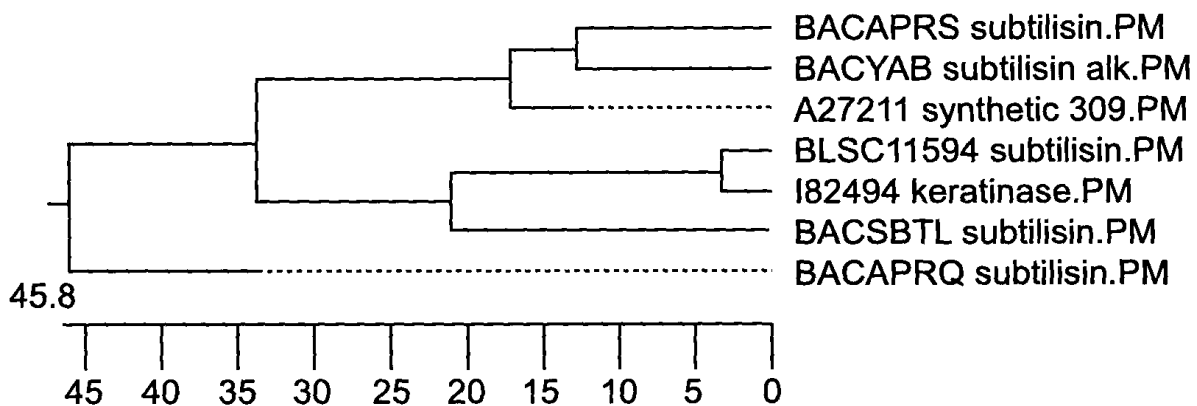


Fig. 5B

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

13/22

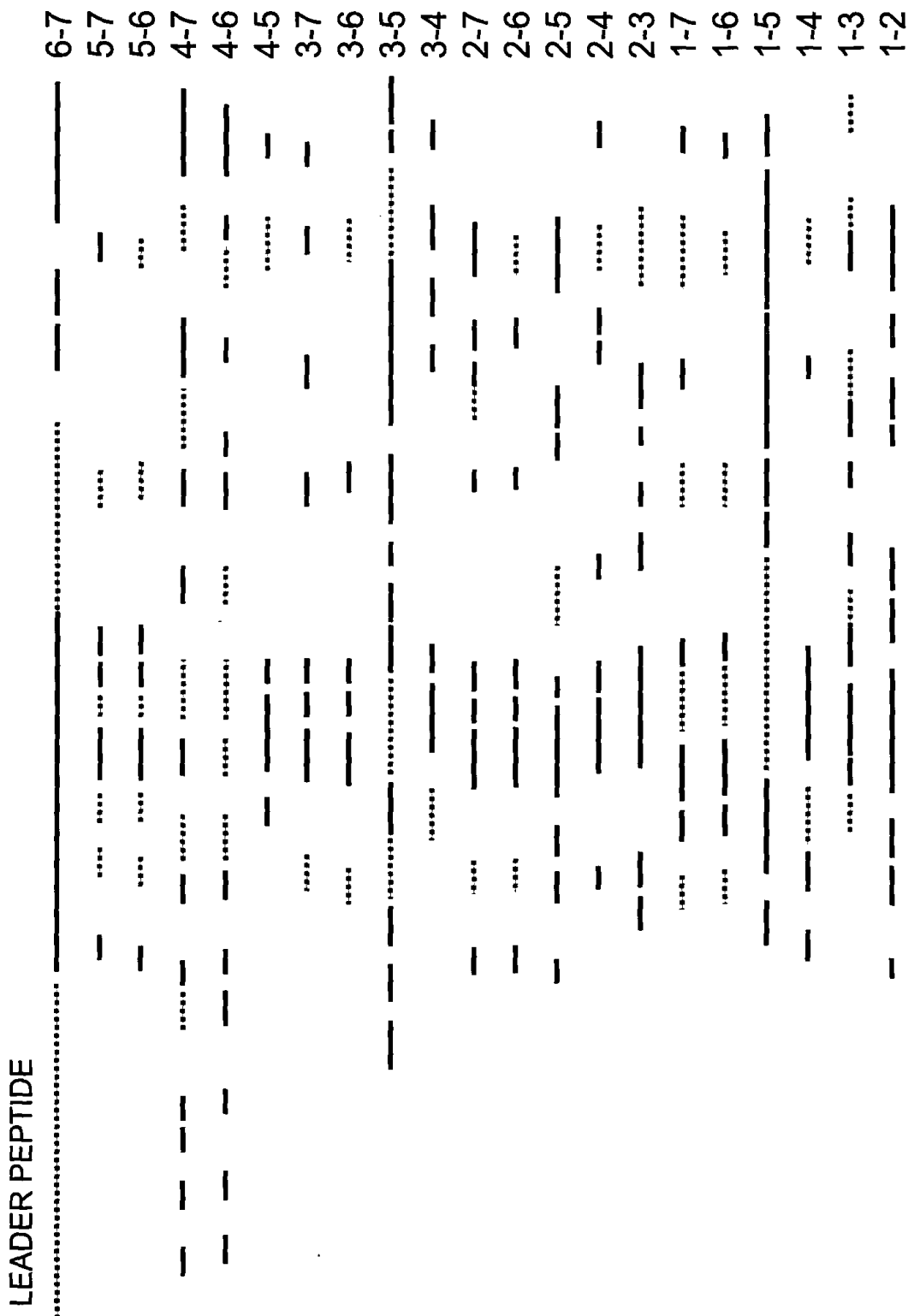


Fig. 6

14/22

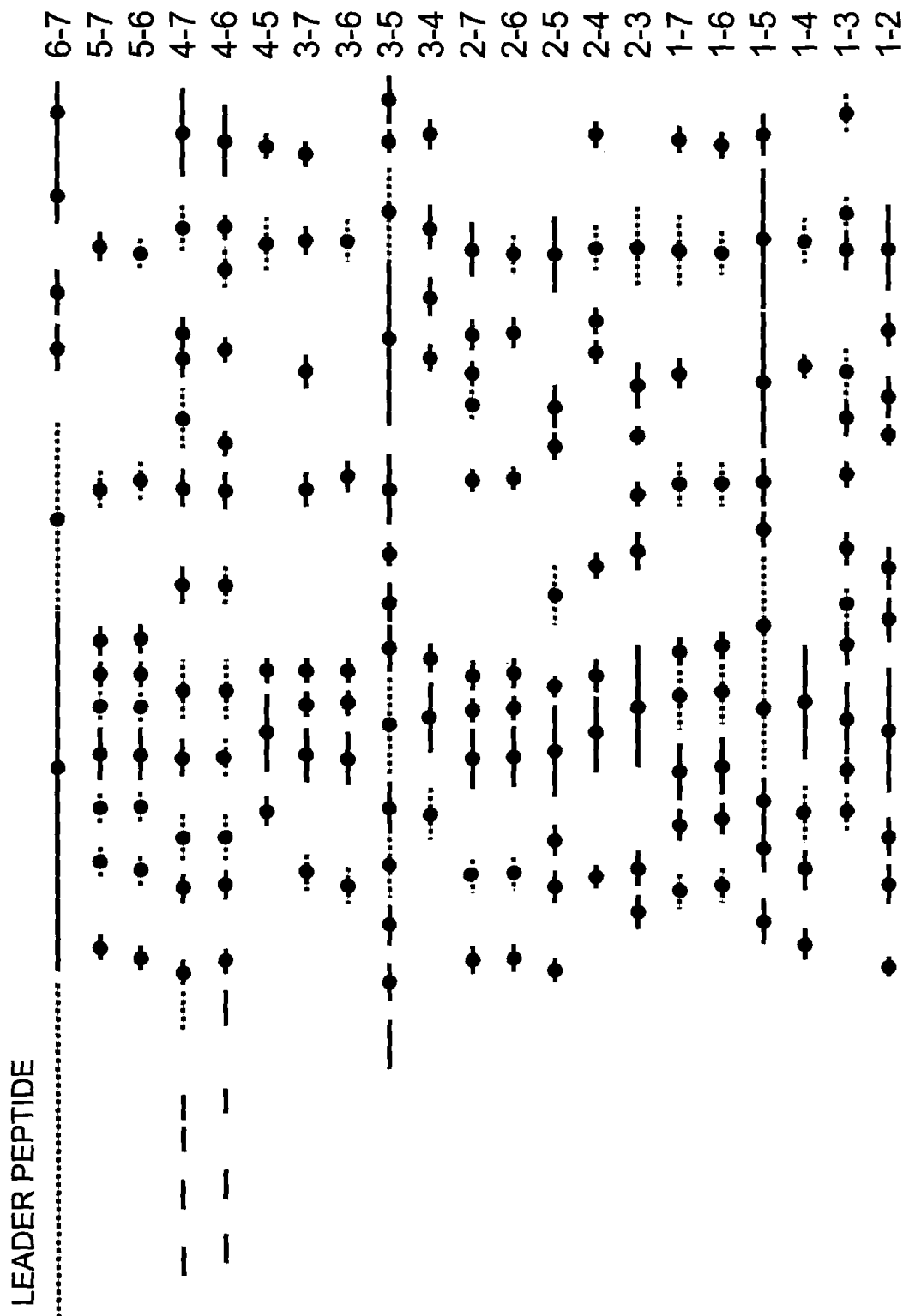


Fig. 7

15/22

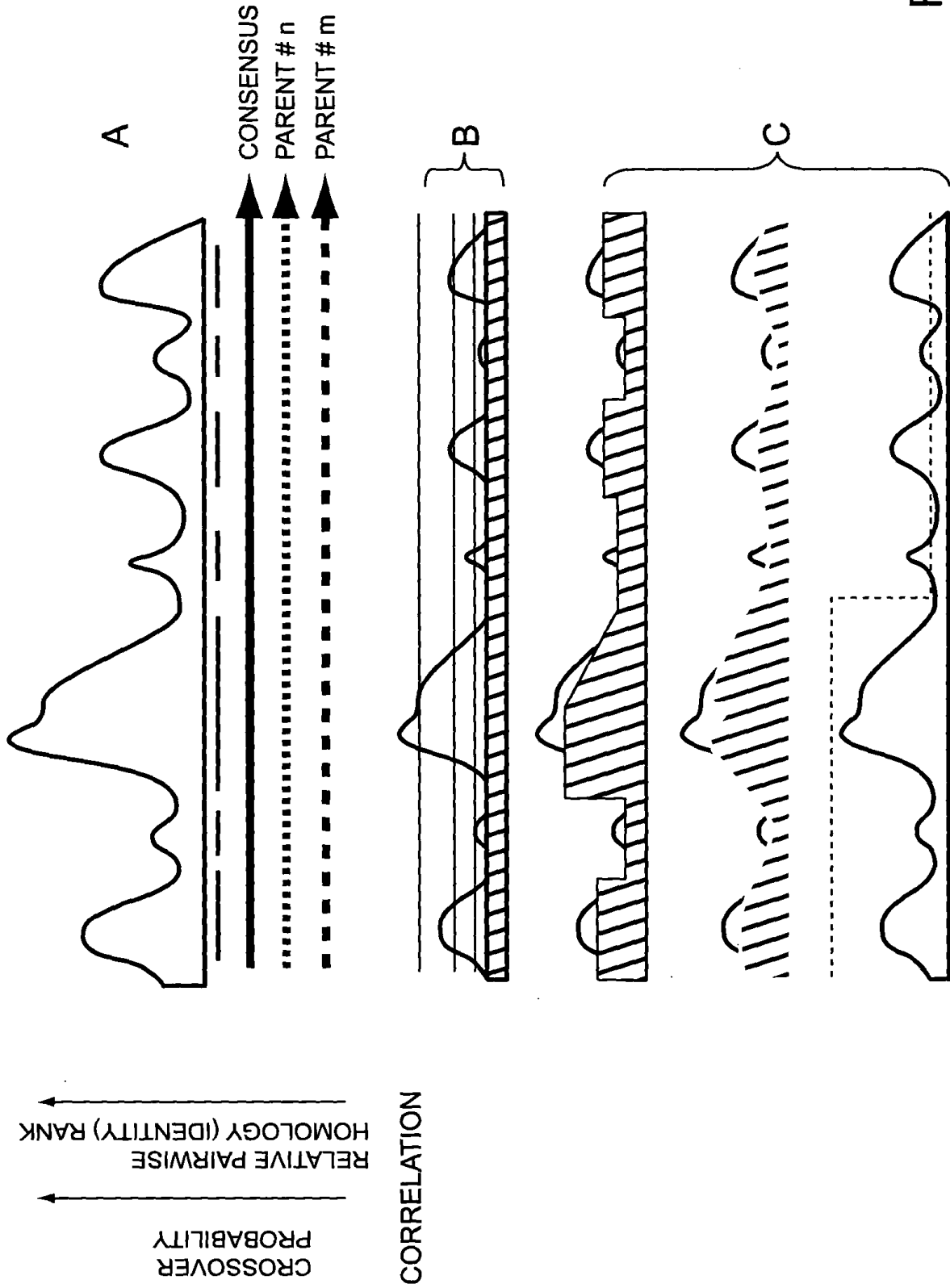
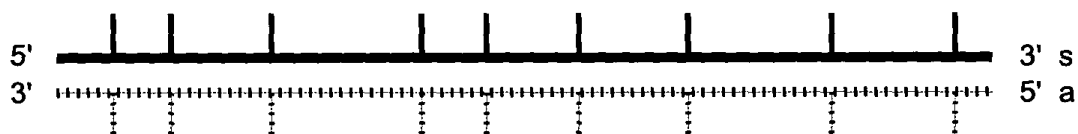
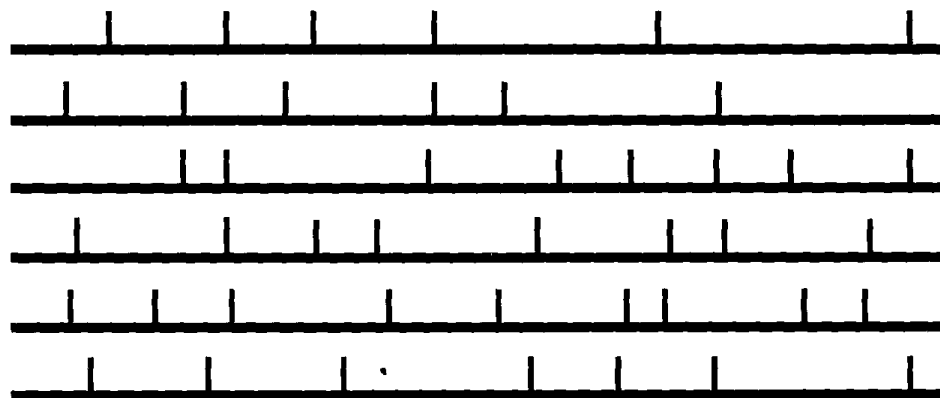
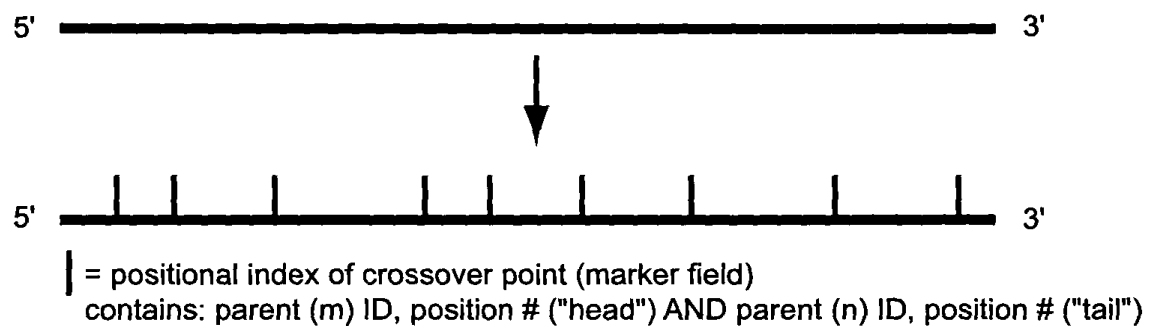


Fig. 8

16/22

Introducing indexed crossover points marker into sequence of each of the parents



Oligo grid index

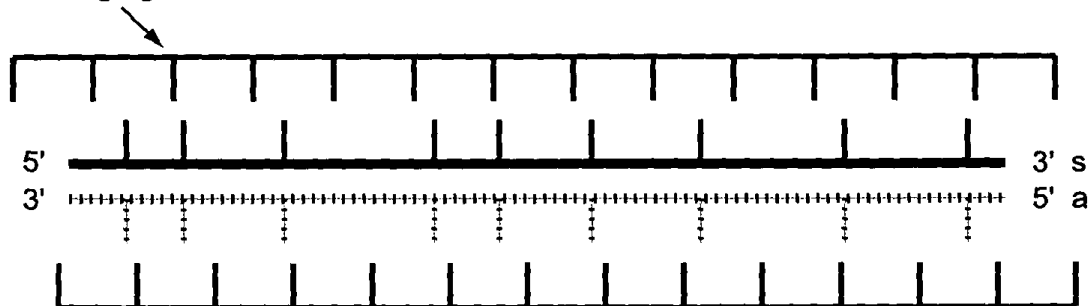


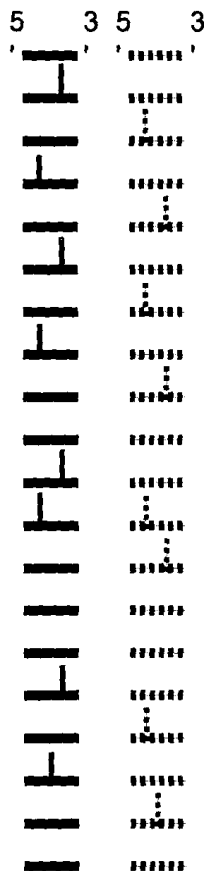
Fig. 9



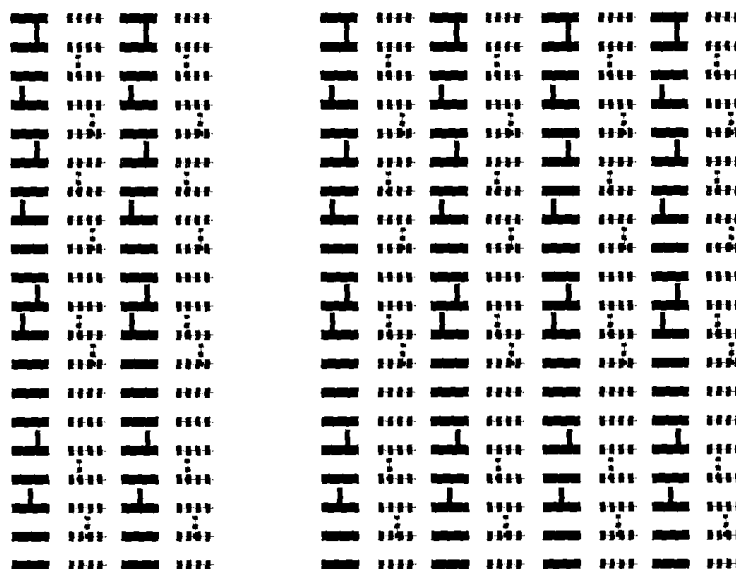
APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

17/22

SET OF OLIGOS  
TO ASSEMBLE A PARENT



COMPLETE INVENTORY OF  
OLIGO SEQUENCES  
(TO ASSEMBLE ALL PARENTS)



FIND ALL PAIRS OF PAIRS OF  
OLIGO SEQUENCES WITH  
MATCHING PAIRWISE  
CROSSOVER INDEXES

SUB-INVENTORY OF OLIGOS WITH  
CROSSOVER MARKERS

Fig. 10

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

18/22

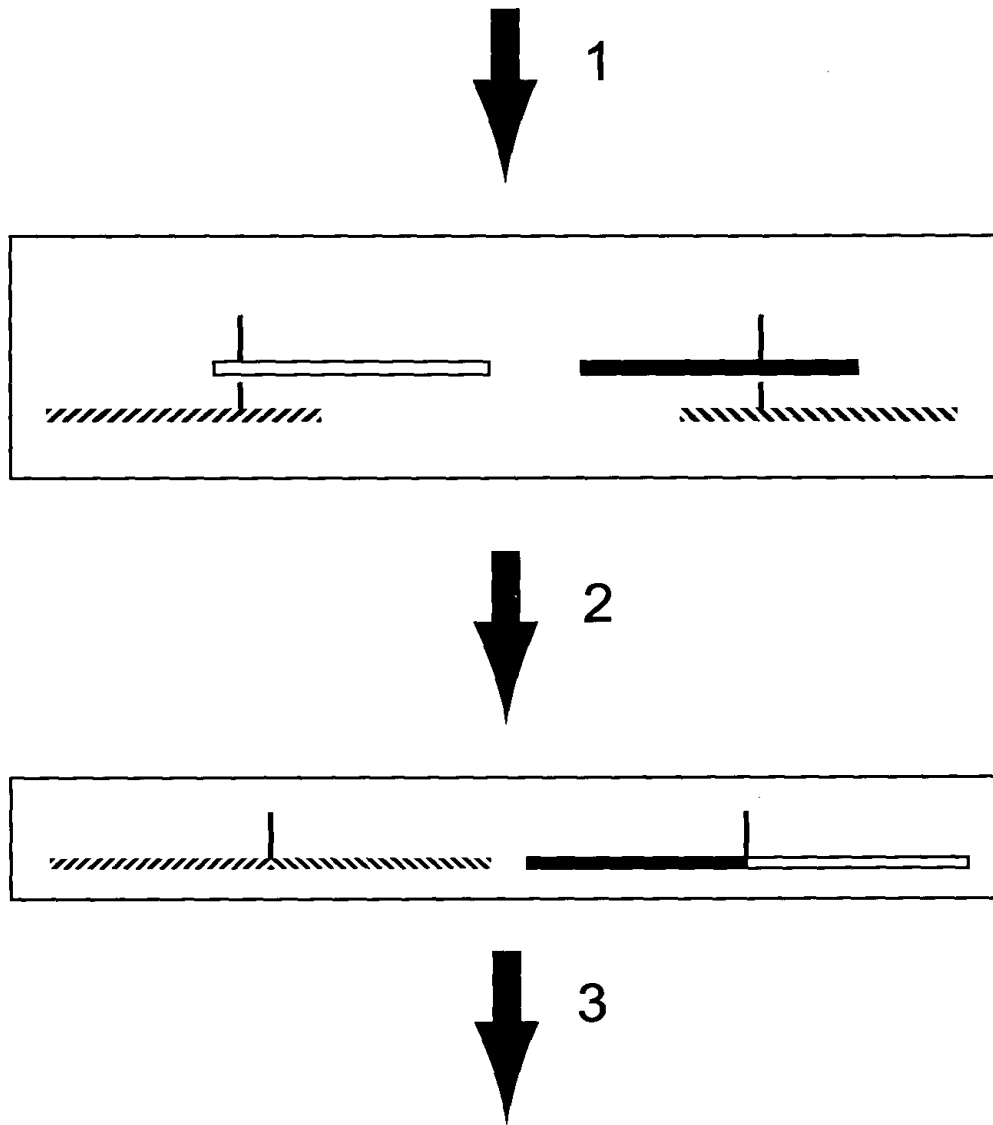


Fig. 11

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

19/22

Percent Similarity

	1	2	3		
1		87.1	79.1	1	24DNT-45DO.ISP-L.prot
2	13.0		83.3	2	2NT-23DO.ISP-L.prot
3	21.7	17.9		3	NDO-PpG7.ISP-L.prot
	1	2	3		

Fig. 12A

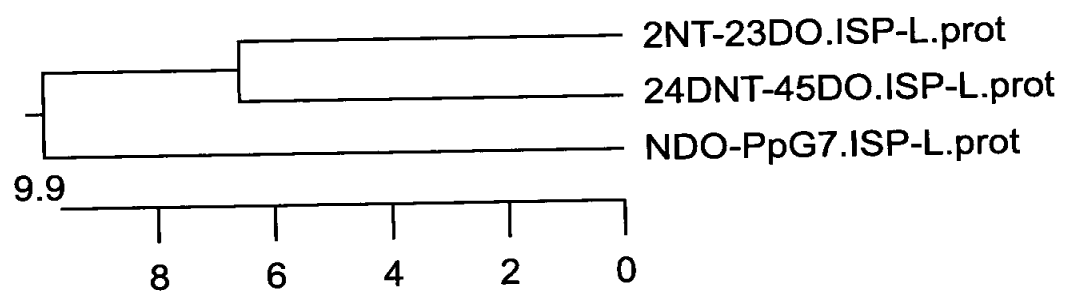


Fig. 12B

20/22

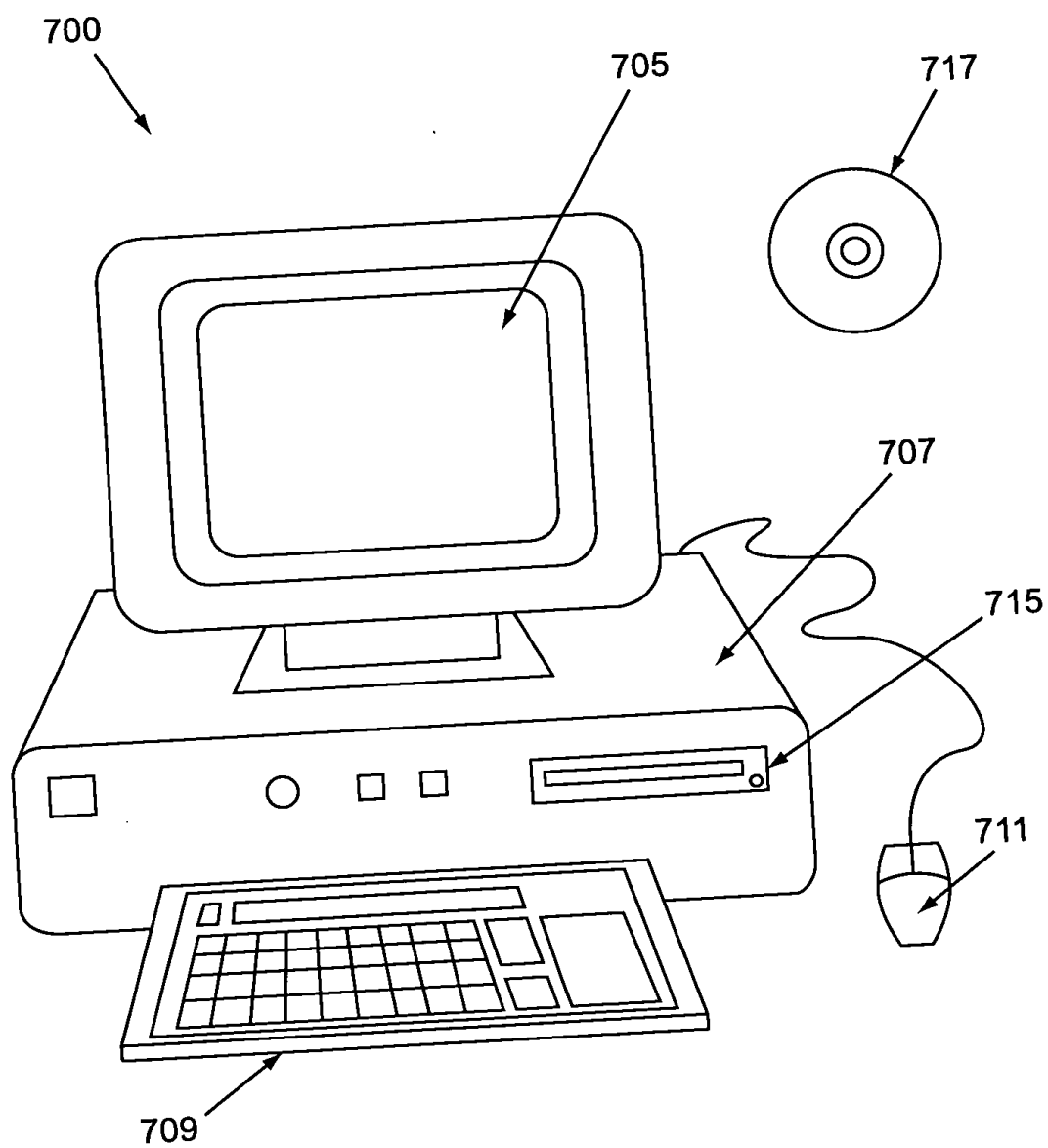
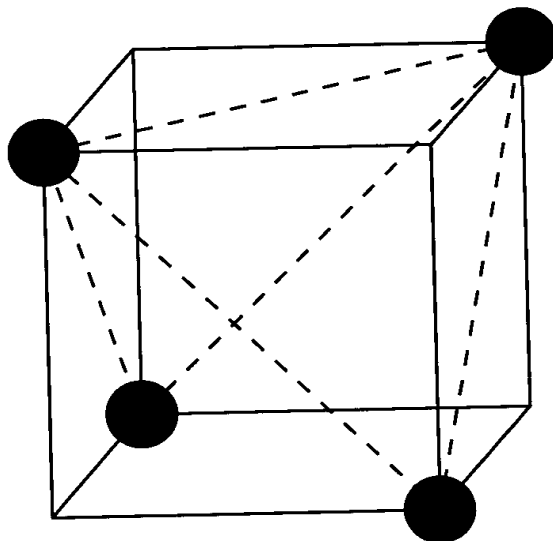


Fig. 13

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

21/22



Geometric representation  
Equal distance between  
each nucleotide

Fig. 14A

A	-1 -1 +1
C	+1 -1 -1
G	-1 +1 -1
T	+1 +1 +1

Numeric representation

Fig. 14B

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

22/22

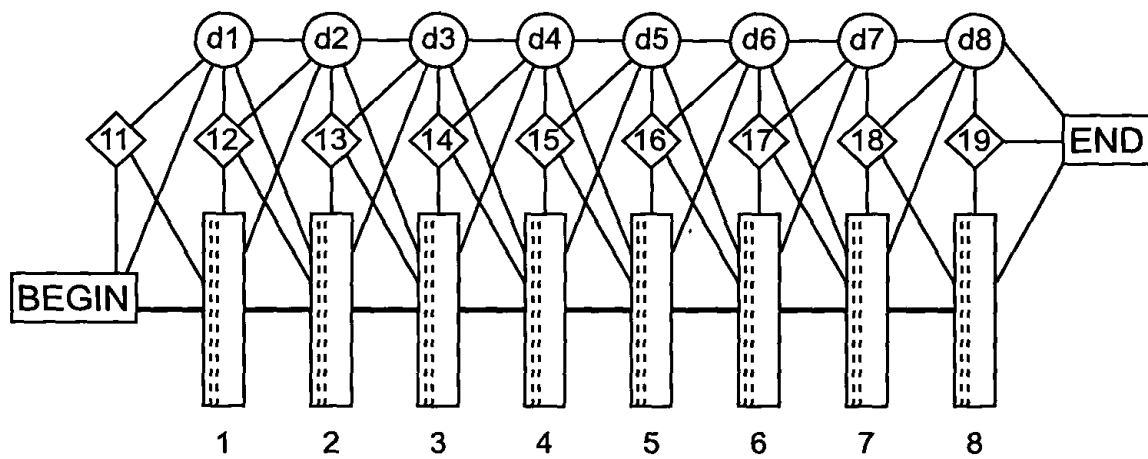


Fig. 15